

Water Management

Hancock County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
6: Okoboji-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Hard to pack	1.00 0.70	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
28: Dickman-----	Very limited Seepage	1.00	Very limited Seepage	1.00	Very limited Deep to water	1.00
28B: Dickman-----	Very limited Seepage	1.00	Very limited Seepage	1.00	Very limited Deep to water	1.00
28D2: Dickman-----	Very limited Seepage	1.00	Very limited Seepage	1.00	Very limited Deep to water	1.00
52B: Bode-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.74	Very limited Deep to water	1.00
52C2: Bode-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.68	Very limited Deep to water	1.00
52D2: Bode-----	Somewhat limited Seepage Slope	0.70 0.01	Somewhat limited Piping	0.68	Very limited Deep to water	1.00
52E2: Bode-----	Somewhat limited Seepage Slope	0.70 0.04	Somewhat limited Piping	0.68	Very limited Deep to water	1.00
55: Nicollet-----	Somewhat limited Seepage	0.70	Somewhat limited Depth to saturated zone Piping	0.02 0.01	Somewhat limited Deep to water Slow refill Cutbanks cave	0.68 0.30 0.10
72: Estherville-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.19	Very limited Deep to water	1.00

Water Management

Hancock County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
72B: Estherville-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.19	Very limited Deep to water	1.00
72C2: Estherville-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.19	Very limited Deep to water	1.00
72D2: Estherville-----	Very limited Seepage Slope	1.00 0.01	Somewhat limited Seepage	0.19	Very limited Deep to water	1.00
73C2: Salida-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.95	Very limited Deep to water	1.00
90: Okoboji-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Hard to pack	1.00 0.58	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
95: Harps-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
107: Webster-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.01	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
135: Coland-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
138B: Clarion-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Very limited Deep to water	1.00
138C2: Clarion-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Very limited Deep to water	1.00

FIELD OFFICE TECHNICAL GUIDE Sec. II
ENGINEERING INTERPRETATIONS

Water Management

Hancock County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
138D2: Clarion-----	Somewhat limited		Very limited		Very limited	
	Seepage	0.70	Piping	1.00	Deep to water	1.00
	Slope	0.01				
174: Bolan-----	Very limited		Somewhat limited		Very limited	
	Seepage	1.00	Seepage	0.18	Deep to water	1.00
174B: Bolan-----	Very limited		Somewhat limited		Very limited	
	Seepage	1.00	Seepage	0.18	Deep to water	1.00
221: Palms-----	Very limited		Very limited		Somewhat limited	
	Seepage	1.00	Depth to saturated zone	1.00	Cutbanks cave	0.10
224: Linder-----	Very limited		Somewhat limited		Very limited	
	Seepage	1.00	Depth to saturated zone	0.43	Cutbanks cave	1.00
			Seepage	0.43	Deep to water	0.25
236B: Lester-----	Somewhat limited		Somewhat limited		Very limited	
	Seepage	0.70	Piping	0.10	Deep to water	1.00
236C2: Lester-----	Somewhat limited		Somewhat limited		Very limited	
	Seepage	0.70	Piping	0.10	Deep to water	1.00
236D2: Lester-----	Somewhat limited		Somewhat limited		Very limited	
	Seepage	0.70	Piping	0.10	Deep to water	1.00
	Slope	0.01				
236F: Lester-----	Somewhat limited		Somewhat limited		Very limited	
	Seepage	0.70	Piping	0.10	Deep to water	1.00
	Slope	0.12				
259: Biscay-----	Very limited		Very limited		Very limited	
	Seepage	1.00	Depth to saturated zone	1.00	Cutbanks cave	1.00
			Seepage	0.24		

FIELD OFFICE TECHNICAL GUIDE Sec. II
ENGINEERING INTERPRETATIONS

Water Management

Hancock County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
274: Rolfe-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
288: Ottosen-----	Somewhat limited Seepage	0.70	Somewhat limited Depth to saturated zone Piping	0.43 0.01	Somewhat limited Slow refill Deep to water Cutbanks cave	0.30 0.25 0.10
308: Wadena-----	Very limited Seepage	1.00	Somewhat limited Seepage	1.00	Very limited Deep to water	1.00
308B: Wadena-----	Very limited Seepage	1.00	Somewhat limited Seepage	1.00	Very limited Deep to water	1.00
335: Harcot-----	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage	1.00 1.00	Very limited Cutbanks cave	1.00
348: Fieldon-----	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage	1.00 0.89	Very limited Cutbanks cave	1.00
384: Collinwood-----	Somewhat limited Seepage	0.01	Somewhat limited Depth to saturated zone Hard to pack	0.09 0.07	Somewhat limited Slow refill Deep to water Cutbanks cave	0.99 0.54 0.10
384B: Collinwood-----	Somewhat limited Seepage	0.01	Somewhat limited Depth to saturated zone Hard to pack	0.09 0.07	Somewhat limited Slow refill Deep to water Cutbanks cave	0.99 0.54 0.10

FIELD OFFICE TECHNICAL GUIDE Sec. II
ENGINEERING INTERPRETATIONS

Water Management

Hancock County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
388: Kossuth-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.01	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
390: Waldorf-----	Somewhat limited Seepage	0.43	Very limited Depth to saturated zone Hard to pack	1.00 0.05	Somewhat limited Slow refill Cutbanks cave	0.57 0.10
485B: Spillville-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.50	Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.30 0.10
506: Wacousta-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.46	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
507: Canisteo-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.73	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
511: Blue Earth-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
524: Linder-----	Very limited Seepage	1.00	Somewhat limited Depth to saturated zone Seepage	0.43 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
562D2: Storden-----	Somewhat limited Seepage Slope	0.70 0.01	Very limited Piping	1.00	Very limited Deep to water	1.00

FIELD OFFICE TECHNICAL GUIDE Sec. II
ENGINEERING INTERPRETATIONS

Water Management

Hancock County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
562E2: Storden-----	Somewhat limited Seepage Slope	0.70 0.04	Very limited Piping	1.00	Very limited Deep to water	1.00
562F2: Storden-----	Somewhat limited Seepage Slope	0.70 0.18	Very limited Piping	1.00	Very limited Deep to water	1.00
621: Houghton-----	Very limited Seepage	1.00	Very limited Content of organic matter Depth to saturated zone	1.00 1.00	Somewhat limited Cutbanks cave	0.10
640C2: Sunburg-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.08	Very limited Deep to water	1.00
640D2: Sunburg-----	Very limited Seepage Slope	1.00 0.01	Somewhat limited Seepage	0.08	Very limited Deep to water	1.00
640E2: Sunburg-----	Very limited Seepage Slope	1.00 0.04	Somewhat limited Seepage	0.09	Very limited Deep to water	1.00
640F2: Sunburg-----	Very limited Seepage Slope	1.00 0.18	Somewhat limited Seepage	0.09	Very limited Deep to water	1.00
641B: Clarion-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Very limited Deep to water	1.00
Sunburg-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.09	Very limited Deep to water	1.00
641C2: Clarion-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Very limited Deep to water	1.00
Sunburg-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.09	Very limited Deep to water	1.00

FIELD OFFICE TECHNICAL GUIDE Sec. II
ENGINEERING INTERPRETATIONS

Water Management

Hancock County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
641D2: Clarion-----	Somewhat limited Seepage Slope	0.70 0.01	Very limited Piping	1.00	Very limited Deep to water	1.00
Sunburg-----	Very limited Seepage Slope	1.00 0.01	Somewhat limited Seepage	0.09	Very limited Deep to water	1.00
641E2: Clarion-----	Somewhat limited Seepage Slope	0.70 0.04	Very limited Piping	1.00	Very limited Deep to water	1.00
Sunburg-----	Very limited Seepage Slope	1.00 0.04	Somewhat limited Seepage	0.09	Very limited Deep to water	1.00
642D2: Sunburg-----	Very limited Seepage Slope	1.00 0.01	Somewhat limited Seepage	0.09	Very limited Deep to water	1.00
Salida-----	Very limited Seepage Slope	1.00 0.01	Somewhat limited Seepage	0.95	Very limited Deep to water	1.00
654: Corwith-----	Somewhat limited Seepage	0.70	Very limited Piping Depth to saturated zone	1.00 0.43	Somewhat limited Slow refill Deep to water Cutbanks cave	0.30 0.25 0.10
655: Crippin-----	Somewhat limited Seepage	0.70	Somewhat limited Piping Depth to saturated zone	0.50 0.43	Somewhat limited Slow refill Deep to water Cutbanks cave	0.30 0.25 0.10
658: Mayer-----	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage	1.00 0.93	Very limited Cutbanks cave	1.00

FIELD OFFICE TECHNICAL GUIDE Sec. II
ENGINEERING INTERPRETATIONS

Water Management

Hancock County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
659: Mayer-----	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage	1.00 0.93	Very limited Cutbanks cave	1.00
787B: Vinje-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.01	Very limited Deep to water	1.00
787C2: Vinje-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.01	Very limited Deep to water	1.00
811: Muskego-----	Very limited Seepage	1.00	Very limited Depth to saturated zone Piping	1.00 1.00	Somewhat limited Cutbanks cave	0.10
823: Ridgeport-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.20	Very limited Deep to water	1.00
823B: Ridgeport-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.20	Very limited Deep to water	1.00
836B: Kilkenny-----	Somewhat limited Seepage	0.57	Somewhat limited Hard to pack	0.16	Very limited Deep to water	1.00
836C2: Kilkenny-----	Somewhat limited Seepage	0.57	Somewhat limited Hard to pack	0.16	Very limited Deep to water	1.00
836E2: Kilkenny-----	Somewhat limited Seepage Slope	0.57 0.02	Somewhat limited Hard to pack	0.16	Very limited Deep to water	1.00
879: Fostoria-----	Somewhat limited Seepage	0.70	Somewhat limited Piping Depth to saturated zone	0.50 0.43	Somewhat limited Slow refill Deep to water Cutbanks cave	0.30 0.25 0.10

FIELD OFFICE TECHNICAL GUIDE Sec. II
ENGINEERING INTERPRETATIONS

Water Management

Hancock County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
956: Harps-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Okoboji-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Hard to pack	1.00 0.70	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
1032: Spicer-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.58	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
1052B: Bode-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.49	Very limited Deep to water	1.00
Kamrar-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
1135: Coland-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
1221: Palms-----	Very limited Seepage	1.00	Very limited Content of organic matter Depth to saturated zone	1.00 1.00	Somewhat limited Cutbanks cave	0.10
1259: Biscay-----	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage	1.00 0.24	Very limited Cutbanks cave	1.00
1339: Truman-----	Very limited Seepage	1.00	Somewhat limited Seepage Piping	1.00 0.82	Very limited Deep to water	1.00

FIELD OFFICE TECHNICAL GUIDE Sec. II
ENGINEERING INTERPRETATIONS

Water Management

Hancock County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1339B: Truman-----	Very limited Seepage	1.00	Somewhat limited Seepage Piping	1.00 0.82	Very limited Deep to water	1.00
1506: Wacousta-----	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage Piping	1.00 0.98 0.51	Very limited Cutbanks cave	1.00
1507: Brownton-----	Not limited		Very limited Depth to saturated zone Hard to pack	1.00 0.55	Very limited Slow refill Cutbanks cave	1.00 0.10
1595: Harpster-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.02	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
1733: Calco-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
2222: Adrian-----	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage	1.00 0.99	Very limited Cutbanks cave	1.00
4000: Urban Land-----	Not rated		Not rated		Not rated	
5010: Pits-----	Not rated		Not rated		Not rated	
5040: Orthents-----	Not rated		Not rated		Not rated	

Water Management

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Hancock County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
W: Water-----	Not rated		Not rated		Not rated	